

LIST OF CLAIMS

The following is a complete listing of revised claims with a status identifier in parenthesis.

1. (Currently Amended) In a system having a video screen energized according to ~~a file of~~ non-text display-generation data obtained at least indirectly from a video card, a method for automatically translating a subset of said ~~file of~~ non-text display-generation data into text variables having values that represent characteristics of a desired one of a plurality of indicators, the method comprising:

acquiring said ~~file of~~ non-text display-generation data at least indirectly from a video card;

extracting groups of non-text data, representative of said plurality of indicators, respectively, from said ~~file of~~ non-text display-generation data;

translating said groups of non-text data into groups of text data;

identifying one of said groups of text data as corresponding to said desired indicator; and

converting the identified group of text data into a set of text variables having values representative of said characteristics of said desired indicator.

2. (Currently Amended) The method of claim 1, wherein said video screen representing an interface that features a plurality of indicators and wherein the aspect of acquiring includes:

connecting to said interface;

submitting a request for predetermined arrangement of indicators on said video screen to said interface in response to which said ~~file of~~ non-text display-generation data will be produced; and

obtaining a copy of said ~~file of~~ non-text display-generation data.

3. (Original) The method of claim 2, wherein the aspect of acquiring further includes:

assuring, before submitting said request, that a cursor on said video screen is in a predetermined location on an input screen.

4. (Currently Amended) The method of claim 3, wherein the aspect of assuring includes:

obtaining a copy of a ~~file~~ of non-text display-generation data corresponding to said input screen;

translating said ~~file~~ of non-text display-generation data corresponding to said input screen into a file of text data;

determining coordinates of said cursor in said file of text data corresponding to said input screen; and

toggling, if said coordinates of said cursor do not match said predetermined location, said cursor to said predetermined location.

5. (Currently Amended) The method of claim 1, wherein the aspect of extracting includes:

parsing each string of data in said ~~file~~ of non-text display-generation data that is bounded at the beginning and at the end by predetermined data values to produce said groups on non-text data.

6. (Original) The method of claim 5, wherein said predetermined data values represent an escape character.

7. (Original) The method of claim 5, wherein the aspect of extracting further includes:

filtering data that do not represent characteristics of an indicator out of said groups of non-text data.

8. (Original) The method of claim 1, wherein said non-text display data is hexadecimal data and said text data is ASCII data, and said aspect of translating translates from said hexadecimal data into said ASCII data.

9. (Original) The method of claim 1, wherein the aspect of identifying includes:

retrieving a list of at least one trait that might be possessed by the identified group of text data corresponding to said desired indicator; and

searching said groups of text data to find a match for one of the traits on said list.

10. (Original) The method of claim 9, wherein said trait is a coordinate combination on said video screen for said desired indicator.

11. (Original) The method of claim 9, wherein the aspect of retrieving indexes a look-up table (LUT).

12. (Original) The method according to claim 9, wherein, if no groups of data match a trait on said list, then said text variables are each set to text string descriptive of there being no such indicator displayed on said video screen.

13. (Original) The method of claim 1, wherein the aspect of converting includes:

recognizing ones of said text data representing an alphanumeric string to be displayed on said video screen; and

setting one of said text variables to be said alphanumeric string.

14. (Original) The method of claim 1, wherein the aspect of converting includes:

recognizing ones of said text data representing a color to be displayed;

retrieving, as a function of the recognized ones of said text data, a color-descriptive alphanumeric string describing said color to be displayed; and

setting one of said text variables to be said color-descriptive alphanumeric string.

15. (Original) The method of claim 14, wherein the aspect of retrieving said descriptive alphanumeric text string indexes a look-up table (LUT).

16. (Original) The method of claim 14, wherein the aspect of retrieving further includes:

retrieving a version-number indicating a version of said interface; and

retrieving, as a function of said version-number and said color-descriptive text string, a state-descriptive alphanumeric string descriptive of a state represented by said color-descriptive string.

17. (Original) The method of claim 16, wherein the aspect of retrieving said alphanumeric state-descriptive string indexes a look-up table (LUT).

18. (Currently Amended) In a system having a video screen energized according to ~~a file of~~ non-text display-generation data obtained at least indirectly from a video card, a device for translating a subset of said non-text from said ~~file of~~ display-generation data into text variables having values that represent characteristics of a desired one of a plurality of indicators, the device comprising:

a programmed processor; and

a first interface, between said processor and said user interface, to acquire ~~said file of~~ non-text display-generation data at least indirectly from a video card;

said programmed processor being operable to manipulate data subject data that includes at least in a second file, ~~said second file being one of said file of~~ non-text display-generation data and other data ~~a file~~ corresponding thereto, by

extracting groups of data, representative of said plurality of indicators, respectively, from ~~said second file~~ subject data;

identifying one of said groups as corresponding to said desired indicator; and

converting the identified group into a set of text variables having values representative of said characteristics of said desired indicator,

said programmed processor also being operable to translate non-text data into groups of text data either before the aspect of extracting, before the aspect of identifying or before the aspect of converting.

19. (Currently Amended) For use with a system having a video screen energized according to ~~a file of~~ non-text display-generation data obtained at least indirectly from a video card, a computer program embodied on a computer-readable medium for automatically translating a subset of said non-text from said ~~file of~~ display-generation data into text variables having values that represent characteristics of a

desired one of a plurality of indicators, the computer program embodied on a computer-readable medium comprising:

an acquisition segment for acquiring said file of non-text display-generation data at least indirectly from a video card; and

a manipulation segment for manipulating subject data that includes at least data in a second file of data, said second file being one of said file of non-text display generation data and other data a file corresponding thereto, by

an extraction segment for extracting groups of data, representative of said plurality of indicators, respectively, from said second file subject data;

an identification segment for identifying one of said groups data as corresponding to said desired indicator; and

a conversion segment for converting the identified group of data into a set of text variables having values representative of said characteristics of said desired indicator;

said manipulation segment further including a translation segment for translating non-text data into text data either before interaction by said extraction segment, before interaction by said identification segment or before interaction by said conversion segment.

20. (Currently Amended) In a system having a video screen energized according to a file of non-text display-generation data obtained at least indirectly from a video card, a method for automatically translating a subset of said file of non-text display-generation data into text variables having values that represent characteristics of a desired one of a plurality of indicators, the method comprising:

acquiring a first file of non-text display-generation data at least indirectly from a video card;

manipulating subject data that includes at least data in a second file of data, said second file being one of said file of non-text display generation data and other data a file corresponding thereto, by

extracting groups of data, representative of said plurality of indicators, respectively, from said second file subject data;

identifying one of said groups of data as corresponding to said desired indicator; and

converting the identified group into a set of text variables having values representative of said characteristics of said desired indicator;

said aspect of manipulating further including translating non-text data into text data either before the aspect of extracting, before the aspect of identifying or before the aspect of converting.

21. (Original) The method of claim 20, wherein the aspect of acquiring further includes:

assuring, before submitting said request, that a cursor on said video screen is in a predetermined location on an input screen.

22. (Currently Amended) The method of claim 21, wherein the aspect of assuring includes:

obtaining a copy of ~~a file~~ of non-text display-generation data corresponding to said input screen;

treating the copy as a file;

determining coordinates of said cursor in said file corresponding to said input screen; and

toggling, if said coordinates of said cursor do not match said predetermined location, said cursor to said predetermined location.

23. (Original) The method of claim 21, wherein said aspect of assuring includes translating from non-text data into text data either before the aspect of determining or before the aspect of toggling.

24. (Currently Amended) The method of claim [1] 20, wherein the aspect of acquiring includes:

connecting to said interface;

submitting a request for predetermined arrangement of indicators on said video screen to said interface in response to which said ~~file~~ of non-text display-generation data will be produced; and

obtaining a copy of said ~~file~~ of non-text display-generation data.

25. (Currently Amended) The method of claim [1] 20, wherein the aspect of extracting includes:

parsing said ~~second file~~ subject data to produce said groups of non-text data, said data strings being at least one of preceded and followed by predetermined data values.

26. (Original) The method of claim 25, wherein said predetermined data values represent an escape character.

27. (Original) The method of claim 25, wherein the aspect of extracting further includes:

filtering data that do not represent characteristics of an indicator out of said groups of data.

28. (Original) The method of claim 20, wherein said non-text data is hexadecimal data and said text data is ASCII data, and the aspect of translating translates from said hexadecimal data into said ASCII data.

29. (Original) The method of claim 20, wherein the aspect of identifying includes:

retrieving a list of at least one trait that might be possessed by the identified group of data corresponding to said desired indicator; and

searching said groups of data to find a match for one of the traits on said list.

30. (Original) The method of claim 29, wherein said trait is a coordinate combination on said video screen for said desired indicator.

31. (Original) The method of claim 29, wherein the aspect of retrieving indexes a look-up table (LUT).

32. (Original) The method according to claim 29, wherein, if no groups of data match a trait on said list, then said text variables are each set to text string descriptive of there being no such indicator displayed on said video screen.

33. (Original) The method of claim 20, wherein the aspect of converting includes:

recognizing ones of said data representing an alphanumeric string to be displayed on said video screen; and

setting one of said text variables to be said alphanumeric string.

34. (Original) The method of claim 20, wherein the aspect of converting includes:

recognizing ones of said data representing a color to be displayed;

retrieving, as a function of the recognized ones of said data, a color-descriptive alphanumeric string describing said color to be displayed; and

setting one of said text variables to be said color-descriptive alphanumeric string.

35. (Original) The method of claim 34, wherein the aspect of retrieving said descriptive alphanumeric string indexes a look-up table (LUT).

36. (Original) The method of claim 34, wherein the aspect of retrieving further includes:

retrieving a version-number indicating a version of said interface; and

retrieving, as a function of said version-number and said color-descriptive string, a state-descriptive alphanumeric string descriptive of a state represented by said color-descriptive string.

37. (Original) The method of claim 36, wherein the aspect of retrieving said alphanumeric state-descriptive string indexes a look-up table (LUT).

38. (Cancel)

39. (Currently Amended) The method of claim 38-1, wherein ~~the video screen is directly energized by the file of non-text display-generation data is obtained directly from the display driver circuit video card.~~

40. (Cancel)

41. (Currently Amended) The device of claim 40-18, wherein ~~the video screen is directly energized by the file of non-text display-generation data is obtained directly from the display driver circuit video card.~~

42. (Cancel)

43. (Currently Amended) The computer program embodied on a computer-readable medium of claim 42-19, wherein ~~the video screen is directly energized by the file of non-text display-generation data is obtained directly from the display driver circuit video card.~~

44. (Cancel)

45. (Currently Amended) The method of claim 44-20, wherein ~~the video screen is directly energized by the file of non-text display-generation data is obtained directly from the display driver circuit video card.~~

46. (New) The method of claim 1, wherein a result of the steps of translating and converting is that a characteristic of at least one of the plurality of indicators is transformed from being described by one or more groups of the non-text display generation data into being described by one or more text variables having values representative thereof.

47. (New) The method of claim 46, wherein the characteristic of the indicator includes at least one of the following: a color characteristic; a color-combination characteristic; a shape characteristic; a blinking characteristic; a visibility characteristic; a state characteristic; a foreground characteristic; a background characteristic; a location characteristic, relative to the video screen; and an alphanumeric characteristic.

48. (New) The device of claim 18, wherein a result of the steps of translating and converting is that a characteristic of at least one of the plurality of

indicators is transformed from being described by one or more groups of the non-text display generation data into being described by one or more text variables having values representative thereof.

49. (New) The device of claim 48, wherein the characteristic of the indicator includes at least one of the following: a color characteristic; a color-combination characteristic; a shape characteristic; a blinking characteristic; a visibility characteristic; a state characteristic; a foreground characteristic; a background characteristic; a location characteristic, relative to the video screen; and an alphanumeric characteristic.

50. (New) The computer program embodied on a computer-readable medium of claim 19, wherein a result of the steps of translating and converting is that a characteristic of at least one of the plurality of indicators is transformed from being described by one or more groups of the non-text display generation data into being described by one or more text variables having values representative thereof.

51. (New) The computer program embodied on a computer-readable medium of claim 50, wherein the characteristic of the indicator includes at least one of the following: a color characteristic; a color-combination characteristic; a shape characteristic; a blinking characteristic; a visibility characteristic; a state characteristic; a foreground characteristic; a background characteristic; a location characteristic, relative to the video screen; and an alphanumeric characteristic.

52. (New) The method of claim 20, wherein a result of the steps of translating and converting is that a characteristic of at least one of the plurality of indicators is transformed from being described by one or more groups of the non-text display generation data into being described by one or more text variables having values representative thereof.

53. (New) The method of claim 52, wherein the characteristic of the indicator includes at least one of the following: a color characteristic; a color-combination characteristic; a shape characteristic; a blinking characteristic; a visibility

characteristic; a state characteristic; a foreground characteristic; a background characteristic; a location characteristic, relative to the video screen; and an alphanumeric characteristic.

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